

**AMENDMENT AND PRESENTATION OF CLAIMS**

Please replace all prior claims in the present application with the following claims.

1.-4. (Canceled)

5. (Previously Presented) The method of claim 22, wherein

a pre-authorization is an authorize presence primitive autonomously provided by an initiating user to authorize transfer of presence information of said initiating user to an authorized user, and the autonomously provided authorize presence primitive includes various information elements including an identifier identifying the user of the initiating client.

6. (Canceled)

7. (Previously Presented) The method of claim 31, wherein

the message primitive has various information elements including a message sending client identifier, a message sending user identifier, and a message content type identifier.

8. (Previously Presented) The method of claim 7, wherein

in response to the message primitive, a delivery primitive is provided to the message sending user, and

the delivery primitive has various information elements including a delivery status element.

9.-16. (Canceled)

17. (Previously Presented) The method of claim 22, wherein said presence attribute values are associated with corresponding presence attributes classified and typed according to a standard.

18. (Canceled)

19. (Previously Presented) The method of claim 22, wherein said method is performed in a presence information management system having at least one server able to communicate with a plurality of devices, wherein a communication protocol is used between the at least one server and the plurality of devices.

20. (Canceled)

21. (Previously Presented) The method of claim 22, wherein said space and time information has a validity attribute associated thereto.

22. (Currently Amended) A method comprising:

receiving a subscribe presence primitive from a client of requesting user for subscribing presence information of a requested user,

determining if a subscription to said presence information of the requested user has been pre-authorized by the requested user,

if the subscription has not been pre-authorized, requesting an authorization and receiving an authorize presence primitive from the requested user,

and if the subscription has been authorized or pre-authorized,

providing a presence primitive including presence information of the requested user to the requesting user according to the subscription,

wherein said subscription is valid for a period of time in which one or more presence primitives including requested presence information of the requested user are pushed ~~provided on an on-going basis~~ to said client of said requesting user, particularly after receiving an update presence primitive including one or more presence attribute values to be updated from said requested user,

wherein the presence primitive comprises one or more information elements including a presence information element, said presence information element comprises one or more presence attributes, the values of the attributes indicating presence status of the requested user or a client of the requested user at the time the presence information is provided, said presence attributes are classifiable in any one or more of the following: client reachability, user availability, user personal status, user or client location, and client capabilities,

and wherein said values of the presence attributes have associated space and time information useable by a presence server to modify said presence attribute values or related presence attribute values in processing said presence primitive.

23. (Previously Presented) The method of claim 22, wherein said one or more information elements further include a message identifier, a transaction identifier, and an identification of the requested user and/or the requesting user.

24. (Canceled)

25. (Previously Presented) The method of claim 22, wherein said requesting authorization from a-the requested user is carried out by providing a request presence authorization primitive, said request presence authorization primitive comprises one or more information elements including a message identifier, an authorization request transaction identifier, a requesting user identifier and a list of presence attributes whose values are to be included in the presence primitive.

26. (Previously Presented) The method of claim 22, wherein said authorize presence primitive comprises one or more information elements including a message identifier, an transaction identifier, a requesting user identifier, and a list of presence attributes whose values are to be included in the presence primitive.

27. (Previously presented) The method of claim 26, wherein said authorize presence primitive further comprises a group identifier if the authorization is related to a group.

28. (Canceled)

29. (Previously presented) The method of claim 22, further comprising:  
receiving a join group primitive from a joining member user joining a private user group,  
providing presence primitives indicative of presence information of member users of said  
private user group to said joining member user upon joining said private user group but  
not after departing, and

providing a group left primitive indicative of a departing member user to remaining private user group member users upon receipt of a leave group primitive indicative of said departing member user.

30. (Previously Presented) The method of claim 29, wherein the joining member user may join the group only if said join group primitive is preceded by an invite user primitive provided by an inviting user to said joining member user.

31. (Previously Presented) The method of claim 22, further comprising:

receiving a create group primitive from a member user creating a user group, said create group primitive having information elements indicative of identification of a client used by the member user creating the user group, identification of the member user creating the user group, and a list of other member users of the user group, providing a group information primitive to the other member users indicative of establishment of the user group and selected group information, and permitting member users of the user group to interchange message primitives.

32. (Previously Presented) The method of claim 31, further comprising:

receiving a get group information primitive from a requesting member user of the user group, and providing a group information primitive indicative of the selected group information to the requesting member user.

33. (Previously Presented) The method of claim 31, further comprising:

receiving a modify group primitive from a requesting member user of the user group, and providing a group information primitive indicative of modified group information of the user group to the requesting member user.

34. (Previously Presented) The method of claim 31, further comprising:

receiving a delete group primitive from a requesting member user of the user group, and providing a status primitive indicative of disestablishment of said user group to the member users of the user group.

35. (Previously Presented) The method of claim 22, further comprising:

receiving a store content primitive from a storing user, storing any content conveyed in a content information element of said store content primitive along with or according to one or more information elements of said store content primitive, said one or more information elements identifying a store transaction, a storing user, a storing client used by said storing user, a group, properties of said content, and a header of said content, providing a content information primitive to member users in said group, said content information primitive having information elements identifying said content information primitive, said store transaction, and said header, receiving a get content information primitive from a retrieving user in said group, said get content information primitive having information elements identifying said get content primitive, a retrieval transaction, the retrieving user, a retrieving client used by said retrieving user, and said group, and

providing a receive content primitive to said retrieving user. said receive content primitive having information elements identifying said receive content primitive, said retrieval transaction, said group, said content, said header of said content, and an information element containing content for sharing among member users of said group.

36. (Previously Presented) The method of claim 35, further comprising:

receiving a delete content primitive from a deleting user, said delete content primitive having information elements identifying said delete content primitive, a delete transaction, the deleting user, a deleting client used by said deleting user, said group, and content for deletion, and deleting said content.

37. (Previously Presented) The method of claim 22, further comprising:

providing a content information primitive to a notified user, said content information primitive having information elements identifying said content information primitive, a store transaction, and a header, receiving a get content information primitive from said notified user, said get content information primitive having information elements identifying said get content primitive, a retrieval transaction, and said notified user, and providing a receive content primitive to said notified user, said receive content primitive having information elements identifying said receive content primitive, said retrieval transaction, said header, and an information element containing a content.

38. (Previously Presented) The method of claim 22, further comprising:

receiving a store shared content primitive from a storing user, said store shared content primitive comprising one or more information elements including an information element containing said shared content, and information elements identifying said store shared content primitive, a store transaction, the storing user and a header, and storing said shared content in response to the store shared content primitive.

39. (Previously Presented) The method of claim 38, further comprising:

receiving a delete content primitive from a deleting user, said delete content primitive comprising one or more information elements identifying said delete content primitive, a delete transaction, the deleting user and a content for deletion, and deleting said content in response to the delete content primitive.

40. (Previously Presented) The method of claim 22, further comprising an exception management method for use in exception handling of a transaction by a user or a server in responding to a request by said server or said user, respectively, said exception management method comprising:

providing a status primitive in said responding to said request for indicating success or failure of said transaction as well as further information contained in information elements of said status primitive, and receiving said status primitive in said requesting server or said requesting user for recognizing said indication of success or failure.

41. (Original) The method of claim 40, wherein said information elements include a message identifier, a transaction identifier, and a status value indicative of said success or failure.



42. (Currently Amended) A server comprising:

a data storage, configured to store presence information of a plurality of users of a presence information service,

a plurality of client interfaces, configured to communicate with said users through their respective clients, and

a processor configured to manage the presence information service, wherein said server is configured to:

receive a subscribe presence primitive from a client of a requesting user for subscribing presence information of a requested user,

determine if a subscription to said presence information of the requested user has been pre-authorized by the requested user,

if the subscription has not been pre-authorized, request an authorization and receive an authorize presence primitive from the requested user,

and if the subscription has been authorized or pre-authorized,

provide a presence primitive including presence information of the requested user to the requesting user according to the subscription,

wherein said subscription is valid for a period of time in which one or more presence primitives including requested presence information of the requested user are ~~provided on an on-going basis~~ pushed to said client of said requesting user, particularly after receiving an update presence primitive including one or more presence attribute values to be updated,

wherein the presence primitive comprises one or more information elements including a presence information element, said presence information element comprises one or more

presence attributes, the values of the attributes indicating presence status of the requested user or a client of the requested user at the time the presence information is provided, said presence attributes are classifiable in any one or more of the following: client reachability, user availability, user personal status, user or client location, and client capabilities,

and wherein said values of the presence attributes have associated space and time information useable by the server to modify said presence attribute values or related presence attribute values in processing said presence primitive.

43. (Previously Presented) The server of claim 42, wherein said one or more information elements further include a message identifier, a transaction identifier, and an identification of the requested user and/or the requesting user.

44. (Canceled)

45. (Previously Presented) The server of claim 42, wherein said server is further configured to request the authorization from a-the requested user by providing a request presence authorization primitive, said request presence authorization primitive comprises one or more information elements including a message identifier, an authorization request transaction identifier, a requesting user identifier and a list of presence attributes whose values are to be included in the presence primitive.

46. (Previously Presented) The server of claim 42, wherein said authorize presence primitive comprises one or more information elements including a message identifier, an authorization

request transaction identifier, a requesting user identifier, and a list of presence attributes whose values are to be included in the presence primitive.

47. (Previously Presented) The server of claim 46, wherein said authorize presence primitive further comprises a group identifier if the authorization is related to a group.

48. (Previously Presented) The server of claim 42, wherein a buddy list user maintains one or more buddy lists on the server for sending messages to one or more recipient users separately or to every user on a buddy list through the server, and wherein the recipient users are not necessarily aware of the buddy list and cannot refer to the buddy list with any replies they make, and said buddy list user maintaining one or more buddy lists on said server is able to access presence information of one or more users on the buddy list.

49. (Previously Presented) The server of claim 42, wherein the server is further configured to: receive a join group primitive from a joining member user joining a private user group, and provide presence primitives indicative of presence information of member users of said private user group to said joining member user upon joining said private user group but not after departing, and provide a group left primitive indicative of a departing member user to remaining private user group member users upon receipt of a leave group primitive indicative of said departing member user.

50. (Previously Presented) The server of claim 49, wherein the joining member user may join the group only if said join group primitive is preceded by an invite user primitive provided by an inviting user to said joining member user.

51. (Previously Presented) The server of claim 42, wherein the server is further configured to: receive a create group primitive from a member user creating a user group, said create group primitive having information elements indicative of identification of a client used by the member user creating the user group, identification of the member user creating the user group, and a list of other member users of the user group, provide a group information primitive to the other member user indicative of establishment of the user group and selected group information, and permit member users of the user group to interchange message primitives.

52. (Previously Presented) The server of claim 51, wherein the server is further configured to: receive a get group information primitive from a requesting member user of the user group, and provide a group information primitive indicative of the selected group information to the requesting member user.

53. (Previously Presented) The server of claim 51, wherein the server is further configured to: receive a modify group primitive from a requesting member user of the user group, and provide a group information primitive indicative of modified group information of the user group to the requesting member user.

54. (Previously Presented) The server of claim 51, wherein the server is further configured to: receive a delete group primitive from a requesting member user of the user group, and provide a status primitive indicative of disestablishment of said user group to the member users of said user group.

55. (Previously Presented) The server of claim 42, wherein the server is further configured to: receive a store content primitive from a storing user, store any content conveyed in a content information element of said store content primitive along with or according to one or more information elements of said store content primitive, said one or more information elements identifying a store transaction. a storing user. a storing client used by said storing user, a group. properties of said content, and a header of said content, provide a content information primitive to member users in said group, said content information primitive having information elements identifying said content information primitive, said store transaction, and said header, receive a get content information primitive from a retrieving user in said group, said et content information primitive having information elements identifying said get content primitive, a retrieval transaction, the retrieving user, a retrieving client used by said retrieving user, and said group, and provide a receive content primitive to said retrieving user, said receive content primitive having information elements identifying said receive content primitive, said retrieval transaction, said group, said content, said header of said content, and an information element containing content for sharing among said member users of said group.

56. (Previously Presented) The server of claim 55, further configured to:

receive a delete content primitive from a deleting user, said delete content primitive having information elements identifying said delete content primitive, a delete transaction, a deleting user, a deleting client used by said deleting user, said group, and content for deletion, and  
delete said content.

57. (Previously Presented) The server of claim 42, further configured to:

provide a content information primitive to a notified user, said content information primitive having information elements identifying said content information primitive, a store transaction, and a header,  
receive a get content information primitive from said notified user, said get content information primitive having information elements identifying said get content information primitive, a retrieval transaction, and said notified user, and  
provide a receive content primitive to said notified user, said receive content primitive having information elements identifying said receive content primitive, said retrieval transaction, said header, and an information element containing a content.

58. (Previously Presented) The server of claim 42, wherein the server is further configured to:

receive a store shared content primitive from a storing user, said store shared content primitive comprising one or more information elements including an information element containing said shared content, and information elements identifying said store shared content primitive, a store transaction, the storing user and a header, and  
store said shared content in response to the store shared content primitive.

59. (Previously Presented) The server of claim 58, wherein the server is further configured to: receive a delete content primitive from a deleting user, said delete content primitive having information elements identifying said delete content primitive, a delete transaction, the deleting user and a content for deletion, and delete said content in response to said delete content primitive.

60. (Previously Presented) The server of claim 42, wherein the server is further configured to: carry out exception handling of a transaction by a user or the server in responding to a request by said server or said user, respectively, and provide a status primitive in said responding to said request for indicating success or failure of said transaction as well as further information contained in information elements of said status primitive, and wherein the client interfaces are further configured to receive said status primitive for recognizing said indication of success or failure.

61. (Original) The server of claim 60, wherein said information elements include a message identifier, a transaction identifier, and a status value indicative of said success or failure.

62.-64. (Canceled)